

1. A thermal retentive wash cloth, comprising a disposable cloth containing needle-punched rayon and polyester, a thermoretentive polymer, and a formulation of thermoretentive mixtures of low to mid-melting point organic waxes.

2. The thermal retentive wash cloth as set forth in Claim 1, wherein a thermoretentive silicone wax comprises a low melting point organic wax with melting point of 48 degrees Celsius.

3. The thermal retentive wash cloth as set forth in Claim 2, wherein said thermoretentive polymer comprises an oil soluble Acrylates/C10-30 Alkyl Acrylate Crosspolymer.

4. The thermal retentive wash cloth as set forth in Claim 2, wherein said needle-punched basesheet material comprises rayon and polyester.

5. The thermal retentive wash cloth as set forth in Claim 4, wherein said disposable cloth containing rayon and polyester is impregnated with a thermoretentive silicone wax comprising Dow Corning 580 silicone wax.

6. The thermal retentive wash cloth as set forth in Claim 2, wherein thermoretentive lipids comprise caprylic triglyceride, capric triglyceride, or stearic triglyceride, or combinations of caprylic triglyceride, capric triglyceride, or stearic triglyceride.

7. The thermal retentive wash cloth as set forth in Claim 2, wherein low melting point triglyceride wax comprises a triglyceride wax having a melting point above about 37°C.

8. The thermoretentive wash cloth as set forth in Claim 2, wherein said cloth contains humectants to hydrate and moisturize fragile skin wherein said humectants comprise a mixture of Sodium PCA, Glycerin, and Propylene Glycol.

9. The thermal retentive wash cloth as set forth in Claim 2, comprising a disposable cloth containing a needle-punched basesheet, heat retentive formulation chemical, and heat retentive insulating packaging components consisting of a high density polyethylene thin film containing metal salts such as sodium chloride, potassium chloride, and zinc sulfate.

10. The thermal retentive wash cloth as set forth in Claim 9, comprising a disposable cloth containing a needle-punch basesheet having 50% rayon and 50% polyester.

11. The thermal retentive wash cloth as set forth in Claim 6, wherein thermoretentive triglyceride oils and waxes comprise 2-8% by weight of caprylic triglyceride, capric triglyceride, or stearic triglyceride, or combinations of caprylic triglyceride, capric triglyceride, or stearic triglyceride.

12. The thermal retentive wash cloth as set forth in Claim 6, wherein said thermoretentive wax further comprises ceresin mid-melting point wax.

13. The thermal retentive wash cloth as set forth in Claim 2, wherein said thermoconducting polymer comprises hydrogenated vegetable oil, hydrogenated coco-glycerides, carnuba wax, hydrogenated palm glycerides, Shea butter, and candelilla wax.

14. The thermal retentive wash cloth as set forth in Claim 2, comprising an oil-in-water emulsion in a mixture of mid to high melting point waxes.

00896307 062904
T06290

15. The thermal retentive wash cloth as set forth in Claim 14, wherein the oil phase of the emulsion contains emulsifiers, emulsion stabilizers, fatty alcohols, and oil soluble polymers.

16. The thermal retentive wash cloth as set forth in Claim 14, comprising PVP Hexadecene Copolymer, PVP/Eicosene Copolymer to form substantivity to keratin materials (skin).

17. The thermal retentive wash cloth as set forth in Claim 14, comprising a oil dispersible polymer of Acrylates/C-10-30 Alkyl Acrylate cross polymer to form ion tolerance.

18. The thermal retentive wash cloth as set forth in Claim 14, comprising water soluble polymers carbomers, hydroxyethylcellulose, xanthan gum, or hydroxypropyl methylcellulose.

19. The thermal retentive wash cloth as set forth in Claim 2, further comprising an insulating polyacryamide gel liner surrounding the wash cloth to maintain the cloths in a warm condition until the care giver is ready to use them.

20. The thermal retentive wash cloth as set forth in Claim 2, comprising a water soluble gel of cetyl hydroxyethylcellulose,

gelled PVP with added inorganic salts or glyceryl poly-methacrylates with glycols in low to high density polyethylene or polypropylene.

21. The thermal retentive wash cloth as set forth in Claim 2, comprising a gelled oil of Penreco Versagel mineral oil for packaging insulating material inserts.

22. The thermal retentive wash cloth as set forth in Claim 2, comprising a water insoluble basesheet substrate having low linting and a basis weight of 4.0 oz. per yard².

23. A method for warming a wash cloth, comprising providing a disposable cloth containing needle-punched rayon and polyester, providing a thermoretentive polymer in said cloth, and formulating thermoretentive mixtures of low to mid-melting point organic waxes in connection with said thermoretentive polymer.

24. A thermal retentive wash cloth, comprising a disposable cloth containing needle-punched rayon and polyester, a thermoretentive polymer, and a formulation of thermoretentive mixtures of organic waxes, wherein said disposable cloth includes a thermoretentive silicone wax wash cloth structure having from

